Automatic Refractometer LX113AR

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Description

Automatic Refractometer LX113AR is a high-precision refractometer with advanced CCD sensing and temperature control, ideal for accurate Brix and refractive index measurements in various liquids. It has refractive index range of 1.30000 - 1.70000, with a resolution of 0.0001 making it accurate. A sapphire prism and LED gives clear vision and increases efficiency. The brix measurement range of 0 - 100 % offers sugar content or any customised test concentration analysis.

Specifications

Measuring range	1.30000 - 1.70000 (nD)
Resolution	0.00001 (nD)
Precision	± 0.00002
Brix range	0 - 100 % (Brix)
Brix accuracy	± 0.1 % (Brix)
Test mode	Refractive index / sugar content / honey moisture /salinity or / customised
Temperature control method	Built-in Peltier
Temperature range	5 °C - 90 °C
Temperature stability	± 0.01 °C
Light source	LED
Wavelength	589 nm
Prism	Sapphire
Sample cell	Hastelloy
Detection	High resolution linear CCD
Display	7 inch FTF colour touch screen
Data capacity	64 G
Output	USB, RS232, RJ45, SD card, U disk
User management	Four-level authority management
21 CFR PART 11	Yes

Audit trail	Yes
Electronic signature	Yes
Custom method library	Yes
Wi-Fi printing	Yes
Export in multiple file formats	PDF, Excel
Power	220 V / 50 Hz
Packing dimension	440 x 400 x 340 mm
Gross weight	10 Kg

Features

- Built-in Peltier temperature control to further improve precision and consistency
- Fully compliant with 21 CFR Part 11 regulatory requirements
- Includes a dual temperature control shield and durable sapphire prism for optimal performance
- Utilizes a long-life LED light source for stable and efficient illumination
- Supports statistical data retrieval and network printing capabilities
- Designed with an easy-to-use touch screen interface for user-friendly operation
- Built with superior chemical resistance for long-term durability in harsh environments
- Sample cell constructed with Hastelloy for strength and corrosion resistance

Applications

- Used in measuring sugar content of solutions in laboratories, brewing and food industry, chemical industry, research institutes, pharmaceuticals, cosmetic industry, petroleum industry, etc.

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